

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: IL-Won Shin

GENERAL INFORMATION:

Name:	Chevron Products Company
Address:	1750 Old Frankfort Pike Lexington, KY 40504
Date application received:	April 18, 2008
SIC/Source description:	5171, Petroleum Bulk Stations & Terminals
Source ID:	21-067-00030
Agency Interest:	1037
Activity:	APE20080001
Permit:	F-05-044 R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
<u>x</u> Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Emissions Potential with Change the Service of Tank 4 (F-05-044 R1)

Pollutant	2007 Actual (tpy)	Potential (tpy)
VOC	23.44	67.07
Benzene	0.0280087	0.3421
Biphenyl	0.0000043	0.0001
Cresol (-o)	0.0000441	0.0008
Cumene	0.0003544	0.0107
Ethyl Benzene	0.0034547	0.0470
Hexane	0.0495343	0.7265
Napthalene	N/A	0.0021
Phenol	0.0000874	0.0013
Styrene	0.0001023	0.0031
Toluene	0.0549711	1.0550
Xylenes	0.0203294	0.4176
Source wide HAPs	0.1568907	2.6062

SOURCE DESCRIPTION:

Chevron Products Company (Chevron) owns and operates a bulk petroleum products distribution terminal located at 1750 Old Frankfort Pike in Lexington, Kentucky. The facility receives a variety of refined bulk petroleum products by pipeline, stores those products in a variety of fixed and floating roof storage tanks (15 petroleum liquid storage tanks), and distributes these products by tank truck. Volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions are due to standing and working tank losses, product loading losses, and fugitive emissions.

MINOR PERMIT REVISION 1: CHANGE THE SERVICE OF TANK 4

Due to market pressures, the Chevron Lexington Terminal is proposing to develop the blending of ethanol with gasoline. The Terminal is proposing the following changes:

- Changing the service of Tank 4 from Diesel fuel service to denatured Ethanol service
- Adding associated piping, valves, and pumps for blending ethanol with gasoline

The ethanol will be offloaded at the tank truck loading rack (TTLR) into Tank 4 for storage and then sent back to the TTLR for blending with gasoline and final distribution onto tank trucks. Tank 4 currently has an internal floating roof (IFR) with mechanical shoe seal and therefore will not be modified to store the denatured ethanol.

Chevron is not requesting increases in emissions or throughputs for the Lexington Terminal. Chevron is requesting that emission limits for VOC and HAP and throughput limits remain the same as in the permit F-05-044.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

Chevron has requested voluntary permit emission limits of 9 tons per year (tpy) or less of a single HAP, 22.5 tpy or less of combined HAPs, and 90 tpy or less of VOC. Compliance with these permit limits shall make the requirements of 401 KAR 52:020, Title V permits, not applicable to this source. These voluntary emission limitations are revised from the respective limits of less than 10 tpy, 25 tpy, and 100 tpy specified in initial Permit No. F-97-016, issued on December 12, 1997, to account for emissions due to insignificant activities. Compliance with the VOC limit shall also make this source a synthetic minor source pursuant to 401 KAR 51:017, prevention of significant deterioration of air quality.

OPERATIONAL FLEXIBILITY:

In order to achieve compliance with the pollutant emission limits specified above, Chevron has requested a voluntary permit limit restricting the total facility throughput of gasoline, slop oil, and gasoline additives to not exceed 250,000,000 gallons per year and total facility throughput of diesel to not exceed 200,000,000 gallons per year. In addition, Chevron is requesting that the denatured ethanol throughput be combined with the facility gasoline, slop oil, and gasoline additives throughput and remain < 250,000,000 gallons per year.